

**MATERIAL SAFETY DATA SHEET****SECTION 1 — PRODUCT IDENTIFICATION****Product identifier:** GLASS**Product code:** not available**Product use:** Reinforcements for various resin systems.**Supplier / Manufacturer name and address:**

Saint-Gobain BTI
43 Bibber Parkway
Brunswick, Maine 0401
Phone #: 1-888-284-2667

Emergency Telephone #: not available**SECTION 2 — CHEMICAL COMPOSITION/HAZARDOUS INGREDIENTS**

<u>Ingredients</u>	<u>CAS #</u>	<u>% (weight)</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Glass, fibrous	not available	98-99	not available	not available
Organic polymer solids (cured)	not available	1-2	not available	not available

SECTION 3 — HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Primary route (s) of entry: Inhalation.**Signs and symptoms of short-term (acute) exposure:***Inhalation:* Harmful if inhaled. Causes throat irritation.*Skin contact:* Mechanical irritation. Typically, skin irritation experienced by most persons newly exposed to fiber glass.*Eye contact:* Mechanical irritation.*Ingestion:* Harmful if swallowed. Unlikely route of entry.**Effects of long-term (chronic) exposure:** None currently known. See Section 11.**Other important hazards:** None.

SECTION 4 — FIRST AID MEASURES

Inhalation: If irritation persists, seek medical attention.

Skin contact: Rinse contact areas with room temperature to cool water, then wash gently with mild soap. If glass fiber becomes embedded, seek medical attention.

Eye contact: Flush eyes with water for at least 15 minutes – seek medical attention.

Ingestion: Seek medical attention.

SECTION 5 — FIRE FIGHTING MEASURES

Fire hazards and conditions of flammability: Not applicable.

Flash point (Method): Not applicable.

Lower flammable limit (% by volume): Not applicable.

Upper flammable limit (% by volume): Not applicable.

Explosion data: not applicable

Sensitivity to mechanical impact: None.

Sensitivity to static discharge: None.

Oxidizing properties: None.

Auto-ignition temperature: None.

Suitable extinguishing media: Water is the preferred extinguishing media.

Special fire-fighting procedures and equipment: In any sustained fire, wear self-contained breathing apparatus (SCBA). Every company should have written NFPA & OSHA compliant, fire/evacuation policies including training for all facility employees.

Hazardous combustion products: The larger part of the product is non-flammable. In a sustained fire, sizing and binders

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear protective equipment. Keep airborne dust concentrations below regulated levels. Not an electrical conductor. Can accumulate static discharge.

Environmental precautions: Dispose in accordance with government regulations. Keep debris minimal by locating waste disposal equipment near work area.

Spill, Response and Cleanup: Use vacuuming or wet sweeping methods instead of dry sweeping. Keep airborne dust concentrations below regulated levels.

Prohibited materials: No data.

SECTION 7 — HANDLING AND STORAGE

Safe handling procedures: Avoid operations creating dust.

Storage requirements: For optimum performance, store at 25°Celsius or less and relative humidity less than 65%

Incompatible materials: None known.

Special packaging materials: No data.

SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and engineering controls: Local exhaust ventilation (if needed) to minimize airborne dust levels.

Respiratory protection: Some applications of these products may not require respiratory protection for fiber glass. However, if airborne fibrous glass concentrations exceed regulatory limits, respiratory protection approved for nuisance dusts is recommended.

Protective gloves: Recommended.

Eye protection: Safety glasses with side shields if there is a chance of airborne glass fibers contacting eyes.

Other protective equipment: Good personal hygiene and the use of barrier creams, caps, protective gloves, cotton coveralls, or long sleeved loose fitting clothing will maximize comfort. Vacuum equipment may be used to remove fibers from clothes. Work clothing should be laundered separately from other clothing before reuse.

Permissible exposure levels: 5 mg per m³ TLV-TWA (ACGIH) for fibrous glass dust, inhalable fraction. NIOSH recommends an exposure limit of 3.0 fibers per cc for fibers less than 3.5 microns in diameter and length greater than 10 microns.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical form, color and odor: White fibers assembled into fabric of varying weights and thickness. No odor.

Odor threshold: None.

pH: Neutral.

Boiling point: in excess of 871.1°Celsius (1600°Fahrenheit)

Melting and freezing point: in excess of 871.1°Celsius (1600°Fahrenheit)

Vapour pressure: Does not have vapour pressure.

Solubility in water: Small

Coefficient of oil and water distribution: None.

Specific gravity or relative density (water = 1): Glass 2.6

Vapour density: Not determined.

Volatile organic compounds (VOC's): Not volatile.

Evaporation rate: Not applicable.

SECTION 10 — REACTIVITY AND STABILITY DATA

Stability and reactivity: Stable.

Conditions to avoid: None known.

Materials to avoid: None known.

Hazardous decomposition products: None known.

SECTION 11 — TOXICOLOGICAL INFORMATION

LD₅₀: not available.

LC₅₀: not available.

Routes of exposure: Inhalation, eye and skin contact.

Factors in fiber toxicity include: fiber dimensions and degree of exposure.

Fiber dimensions: Fibers are either non-respirable or respirable. Respirable fibers can penetrate to the “deep” lung area. The narrow, bending passages of the human respiratory system, do not permit the relatively larger, non respirable fibers to enter the “deep” lung area. Instead, they strike the surfaces of the upper respiratory tract, nose or pharynx and stop. They may then be filtered by nasal hairs or other natural mechanisms.

Toxicological data: not available.

Carcinogenicity: No adequate data to classify.

Teratogenicity, mutagenicity, other reproductive effects: No adequate data to classify.

Sensitization to material: No data.

Conditions aggravated by exposure: None known.

Synergistic materials: None known.

SECTION 12 — ECOLOGICAL INFORMATION

Important environmental characteristics: Fiber glass is generally considered to be an inert solid waste, and no special precautions should be taken in case it is released or spilled.

Aquatic toxicity: No data.

SECTION 13 — WASTE DISPOSAL

Handling for disposal: Fiber glass is considered non-hazardous per EPA, RCRA, 40CFR, Part 261.1990. Considered an inert solid waste. Local, state, and national regulations should be consulted to ensure proper disposal procedures. Fiber glass products which are part of a reinforced plastic or uncured resin system must be disposed of in accordance with applicable requirements for those plastic or uncured resin where they exist. Not regulated by the Department of Transportation (DOT.)

Methods of disposal: Non hazardous.

SECTION 14 — TRANSPORTATION INFORMATION**Transportation of Dangerous Goods (TDG) information:**

Shipping description: Not regulated.

49 CFR information:

Shipping description: Not regulated.

International Dangerous Goods information:

IMO: Not regulated.

ICAO: Not regulated.

Other information: None.

SECTION 15 — REGULATORY INFORMATION

WHMIS information: Exempt.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

CEPA information: Exempt.

TSCA information: Exempt

SECTION 16 — OTHER INFORMATION

Prepared by: Saint-Gobain BTI

Telephone number: (207) 729-7792

Preparation date: September 20, 2002